

PHOTOCATALYST WITH TITANIUM DIOXIDE AS BASE MATERIAL AND ITS PRODUCTION

Patent Number: JP9267037
Publication date: 1997-10-14
Inventor(s): MORIMITSU KOICHI; KURIHARA TOKUMITSU; SAITO TATSUO; BUSAKA HIDEKI
Applicant(s): TITAN KOGYO KK
Requested Patent: ☐ JP9267037
Application Number: JP19960106132 19960401
Priority Number(s):
IPC Classification: B01J21/06; B01J35/02; B01J35/10
EC Classification:
Equivalents: JP3388993B2

Abstract

PROBLEM TO BE SOLVED: To provide a photocatalyst being a titanium dioxide forming solid soln. with Nb(V).
SOLUTION: The titanium dioxide containing 0.1-5.0wt.% Nb₂O₅ and having 50-350m²/g specific surface area or the titanium dioxide containing 0.1-5.0wt.% Nb₂O₅ and having a crystalline diameter within a range of 80-250Å exhibit an excellent photocatalytic activity. The photocatalyst is obtained by adding a Nb(V) compd. to titanyl sulfate or metatitanic acid and heating at ≤700 deg.C.

Data supplied from the esp@ccnet database - 12